

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 09362
Name: Williams Natural Gas Co.
Address: Box 580
City/State/Zip Welda, Kansas 66091

Purchaser: _____
Operator Contact Person: Mike Murphy
Phone (913) 448-5888
Contractor: Name: Sterling Drilling
License: 5142
Wellsite Geologist: None

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD S1OW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expl., Cathodic, etc.)

If Workover/Re-Entry: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBSD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
6-12-92 6-18-92 6-30-92
Spud Date Date Reached TD Completion Date

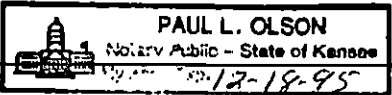
API NO. 15- 159-22329-0000
County Rice
NE - SE - SE - Sec. 16 Twp. 21S Rge. 9 ^E
990 Feet from S (circle one) Line of Section
330 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)
Lease Name Alden Storage Well # 20
Field Name Alden
Producing Formation Misener
Elevation: Ground 1670 KB 1679
Total Depth 3400' K.B. PBSD 3363' K.B.
Amount of Surface Pipe Set and Cemented at 531 K.B. Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ ex cat.

Drilling Fluid Management Plan ALT 1 10/1/92 JAH
(Data must be collected from the Reserve Pit)
Chloride content 70,000 ppm Fluid volume 1285 bbls
De-watering method used _____
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
_____ Quarter Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature William J. Murphy
Title Storage Superintendent Date 7-24-92
Subscribed and sworn to before me this 24 day of July 19 92.
Notary Public Paul L. Olson
Date Commission Expires 12-18-95



AUG 17 1992 8-17-1992

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator Name Williams Natural Gas Co. Lease Name Alden Storage Well # 20

Sec. 16 Twp. 21S Rge. 9 East West
 County Rice

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	2798	-1119
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Brown Lime	2932	-1253
List All E.Logs Run:		Lansing	2961	-1282
Dual Induction Laterlog		B-KC	3246	-1567
Segmented Bond Log Gamma Ray CCL		Comglomerate	3258	-1579
Spectral Density Dual Spaced Neutron II Log		Kinderhook	3268	-1589
Six Electrode Dipmeter		Misener	3300	-1621
		Maqoketa	3338	-1659

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	24	531' KB	60x40 Poz	375	2% Gel 3% C.C.
Production	7 7/8"	5 1/2"	15.5	3399' KB	Lite 50x50 Poz	525 100	6% Gel 2% Gel

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 SPF	204 (shots) 3302' - 3336'		

TUBING RECORD		Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf.	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	3302'
(If vented, submit ACO-18.)	<input type="checkbox"/> Other (Specify)	3336'

CORE LABORATORIES

Company : WILLIAMS NATURAL GAS
 Well : ALDEN STORAGE NO. 20 WELL
 Location : SEC.16, T21S; R9W
 Co,State : RICE COUNTY, KANSAS

Field : ALDEN FIELD
 Formation : MISENER
 Coring Fluid : WATER BASE
 Elevation :

File No.: 57182-13509
 Date : 22-Jul-1992
 API No. :
 Analysts: MH TW DF SB

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY		POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	DESCRIPTION
		(HORIZONTAL) Kair md	(VERTICAL) Kair md			
	3290.0- 00.4					Shale
	3300.4- 02.0					Sst vf gr slty shly
1	3302.0- 04.0	15.7	0.05	10.6	2.66	Sst f gr qtz-ovgth sh/lam chlor / Vert Sample - f gr lmy qtz-ovgth v shly
2	3304.0- 06.0	40.0	3.70	13.0	2.65	Sst f gr qtz-ovgth slily shly / Vert Sample - f gr calc qtz-ovgth sh/lam
3	3306.0- 08.0	49.0	22.0	12.7	2.66	Sst f gr qtz-ovgth slily shly / Vert Sample - same
4	3308.0- 10.0	108.	100.	14.1	2.65	Sst f gr qtz-ovgth slily shly / Vert Sample - same
5	3310.0- 12.0	26.0	4.30	12.9	2.65	Sst f gr qtz-ovgth slily shly / Vert Sample - f gr qtz-ovgth sh/lam
6	3312.0- 14.0	11.0	5.40	11.4	2.66	Sst f gr qtz-ovgth slty shly / Vert Sample - same
7	3314.0- 16.0	73.0	86.0	13.4	2.65	Sst f gr qtz-ovgth slily shly / Vert Sample - same
8	3316.0- 18.0	1.50	0.22	9.6	2.67	Sst f gr qtz-ovgth slty slily calc v shly / Vert Sample - same
9	3318.0- 22.0	181.		15.6	2.65	Sst f gr qtz-ovgth
10	3322.0- 26.0	691.		17.6	2.66	Sst f gr qtz-ovgth
11	3326.0- 30.0	473.		17.4	2.65	Sst f gr qtz-ovgth
12	3330.0- 32.0	3230.		18.8	2.66	Sst m gr qtz-ovgth

RECEIVED
 STATE COMPARATION COMMISSION
 AUG 17 1992
 CONSERVATION DIVISION
 Wichita, Kansas

CORE LABORATORIES

Company : WILLIAMS NATURAL GAS
Well : ALDEN STORAGE NO. 20 WELL

Field : ALDEN FIELD
Formation : MISENER

File No.: 57182-13509
Date : 22-Jul-1992

TABLE I

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS	
ZONE:	ZONE:	PERMEABILITY:
Identification ----- MISENER	Number of Samples ----- 12	Flow Capacity ----- 12488.4 md-ft
Top Depth ----- 3290.0 ft	Thickness Represented - 30.0 ft	Arithmetic Average ---- 416. md
Bottom Depth ----- 3332.0 ft		Geometric Average ---- 101. md
Number of Samples ----- 13	POROSITY:	Harmonic Average ----- 15.8 md
	Storage Capacity ----- 435.4 ϕ -ft	Minimum ----- 1.50 md
DATA TYPE:	Arithmetic Average ---- 14.5 %	Maximum ----- 3230. md
Porosity ----- (HELIUM)	Minimum ----- 9.6 %	Median ----- 61.0 md
Permeability ----- (HORIZONTAL) Kair	Maximum ----- 18.8 %	Standard Dev. (Geom) -- $K \cdot 10^{\pm 0.906}$ md
	Median ----- 13.2 %	
CUTOFFS:	Standard Deviation ---- ± 3.0 %	HETEROGENEITY (Permeability):
Porosity (Minimum) ----- 0.0 %		Dykstra-Parsons Var. -- 0.818
Porosity (Maximum) ----- 100.0 %	GRAIN DENSITY:	Lorenz Coefficient ---- 0.683
Permeability (Minimum) --- 0.0000 md	Arithmetic Average ---- 2.66 gm/cc	
Permeability (Maximum) --- 100000. md	Minimum ----- 2.65 gm/cc	AVERAGE SATURATIONS (Pore Volume):
Water Saturation (Maximum)	Maximum ----- 2.67 gm/cc	Oil -----
Oil Saturation (Minimum) -	Median ----- 2.66 gm/cc	Water -----
Grain Density (Minimum) -- 2.00 gm/cc	Standard Deviation ---- ± 0.01 gm/cc	
Grain Density (Maximum) -- 3.00 gm/cc		
Lithology Excluded ----- NONE		

RECEIVED
 JUL 17 1992
 CORE LABS
 WILLIAMS NATURAL GAS
 ALDEN STORAGE NO. 20 WELL

DISTRICT PRAT

DATE 6-12-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: WILLIAMS NATURAL GAS AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING (CUSTOMER)

WELL NO. 320 LEASE ALLEN STORAGE FIELD SEC 16 TWP. 21 RANGE 9

FIELD _____ COUNTY RICE STATE KS OWNED BY SAME

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							
PRESENT PROD: OIL _____ BPD, H ₂ O _____ BPD, GAS _____ MCF							

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

INT SURF 156 INT SURF 515' G.L.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees. THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default of the highest lawful contract rate applicable, but never to exceed 18% per annum in the event it becomes necessary to employ attorneys to enforce collection of said account. Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
- b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "wellowner" shall include working and royalty interest owners.
 2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
- d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
- e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for machine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer, at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
- f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
- g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
- h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED _____ CUSTOMER

DATE 6-12-92

TIME 11:30 AM P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

CUSTOMER

WELL DATA

FIELD _____ SEC. 14 TWP. 88 RING. 90 COUNTY PRICE STATE KS.

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING			8 7/8	0	535	
LINER						
TUBING						
OPEN HOLE			12 1/4	LD	535	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-12</u> TIME <u>11:30</u>	DATE <u>6-12</u> TIME <u>14:15</u>	DATE <u>6-12</u> TIME <u>18:30</u>	DATE <u>6-12</u> TIME <u>20:00</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	<u>1</u>	<u>Hawco</u>
HEAD <u>P.C.</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>M. Elyaci</u>	<u>1024</u>	<u>H. D.</u>
<u>D. Scott</u>	<u>3244</u>	<u>"</u>
<u>C.</u>	<u>2112</u>	<u>TRATT</u>
	<u>4142</u>	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL API _____

DISPL. FLUID _____ DENSITY _____ LB/GAL API _____

PROP. TYPE _____ SIZE _____ LB. _____

PROP. TYPE _____ SIZE _____ LB. _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

ACID TYPE _____ GAL. _____ % _____

SURFACTANT TYPE _____ GAL. _____ IN. _____

NE AGENT TYPE _____ GAL. _____ IN. _____

FLUID LOSS ADD TYPE _____ GAL-LB. _____ IN. _____

GELLING AGENT TYPE _____ GAL-LB. _____ IN. _____

FRIC RED AGENT TYPE _____ GAL-LB. _____ IN. _____

BREAKER TYPE _____ GAL-LB. _____ IN. _____

BLOCKING AGENT TYPE _____ GAL-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT U.M.T.

DESCRIPTION OF JOB U.M.T. SURT. CSG.

JOB DONE THRU. TUBING CASING ANNULUS TBG/ANN

CUSTOMER REPRESENTATIVE X M. Elyaci

HALLIBURTON OPERATOR M. Elyaci COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	BULK SACKED	ADDITIVES	YIELD CU FT/SK	MIXED LBS/GAL
	<u>575</u>	<u>40 102 / 10 STANDARD</u>	<u>0% C.C. 3% C.C.</u>	<u>127</u>	<u>14.30</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN. BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____

SHUT-IN INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL 84.82

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____

TREATING _____ DISPL _____ OVERALL _____ REMARKS 6/10 17 1992

FEET 20 REASON REQUESTED

CUSTOMER: WILLIAMS WILCOX (P.O. BOX 245) STORAGE FIELD, WELL NO. 20, JOB TYPE: CSG.

JOB LOG

WELL NO. 20 LEASE (L) STONE TOWN TICKET NO. 295707

OWNER WILLIAMS NATURAL GAS PAGE NO. 1

JOB TYPE VIT. SURF. FSG. DATE 6-12-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	11:30							(PULLED) OUT
	14:15							(O) ISOLATION
								BREAK CIRC.
	18:50		0				450	MIX CMT.
	19:08		8482					STOP MIX. RELEASE PULG.
	19:09		0				600	START DISP.
	19:15		3275					PULG. DISP. { CMT RETURNS
	19:17							START IN { 27445 DISP.
								12:00 AM
								BACK UP
	20:00							END CMT.

Handwritten signature and initials at the bottom right of the page.

RECEIVED stamp with date JUN 17 1992 and other illegible text.

DISTRICT **Kait Beer** DATE **6-18-92**

TO: **HALLIBURTON SERVICES** YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: **Williams Natural Gas** (CUSTOMER)

WELL NO **20** LEASE **Pleco Storage** SEC **16** TWP. **21S** RANGE **9W**

FIELD _____ COUNTY **Reels** STATE **Ks** OWNED BY **Soms**

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM	TO		
PACKER: TYPE	SET AT			
TOTAL DEPTH	MUD WEIGHT			
BORE HOLE				
INITIAL PROD:	OIL _____ BPD, H2O _____ BPD, GAS _____ MCF			
PRESENT PROD:	OIL _____ BPD, H2O _____ BPD, GAS _____ MCF			

PERFORATIONS	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____

*23000 lbs Borehole fluid by 23000 lbs Hydrolytic 40/60 fluid, 275 lbs
 1000 lbs 23000 lbs Halliburton 33% H2O 33% H2O 100 lbs 33% H2O 100 lbs 33% H2O
 2000 lbs 33% H2O 2000 lbs 33% H2O 2000 lbs 33% H2O 2000 lbs 33% H2O*

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED

- As consideration, the above-named Customer agrees:
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list, net of any applicable discounts and net of any applicable taxes. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorney's fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Personal injury, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well, or any damage whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
 - The defense, indemnity, release and hold harmless obligations of Customer provided for in the Section (a) and Section (b) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, active liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections (a) and (b) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - That because of the uncertainty of variable well conditions and the necessity of relying on tests and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against all damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for routine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act to the extent permitted by law.
 - That the contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED: **Mark K. Williams**
 DATE: **6-18-92**
 TIME: **15:30 AM**

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

JOB LOG

WELL NO. 70 LEASE Hillside Shrimp TICKET NO. 295675
 CUSTOMER Williams Nat Gas PAGE NO. 1
 JOB TYPE Long string DATE 6-18-72

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1500							On Location
	1730							Run Fracturing agent 8000
	1900							losing on Bottom
	1930							Break Circulation (Run Pump)
	2016	6	0					30 Start Self Flush
	2040	6	20					30 Start Spacers
	2041	6	23					30 Start Super Flush
	2043	6	35					30 Start Spacers
	2025	6	0					33 Start Mixing Lead cut 10 1/2"
								12 1/2" cut
	2040		819					30 Start Mixing 2nd lead 12 1/2" cut
	2041		820					Constant on Bottom
	2050		8124					300 Start Mixing Tail cut 13 7/8"
	2104		2059					Finish Mixing
	2125							- 8 Wash out Lines
	2108	8	0					200 Start Displacement
	2116	6	45					900 Decrease Rate
	2130	5	50			1200	1040	" "
		5	65					1500 Cement Circulation
		5						15 bbl to P.T
	2121	4	80.3					1400 Load Plug
	2124							- Release Float Hold
								wash up
	2230							Job Complete
								Thanks
								Glen Wayne

WELL DATA

FIELD _____ SEC. 16 TWP. 21 RANG. 9 COUNTY Rice STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING						
LINER						
TUBING						
OPEN HOLE			<u>7 7/8</u>	<u>33.4</u>	<u>37.0</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>1 1/2" 50</u>	<u>1</u>	<u>H. W. G. 2</u>
FLOAT SHOE		
GUIDE SHOE <u>5 1/2" 50</u>	<u>1</u>	
CENTRALIZERS <u>2 1/2" 50</u>	<u>2</u>	
BOTTOM PLUG		
TOP PLUG <u>5 1/2" 50</u>	<u>1</u>	
HEAD <u>2 1/2" 50</u>	<u>1</u>	
PACKER		
OTHER <u>1 1/2" 50</u>	<u>3</u>	

CALLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>1-18-60</u>	<u>1-18-60</u>	<u>1-18-60</u>	<u>1-22-60</u>
TIME <u>10:00</u>	TIME <u>10:00</u>	TIME <u>17:00</u>	TIME <u>22:30</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENSITY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB

PROP. TYPE _____ SIZE _____ LB

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

SURFACTANT TYPE _____ GAL _____ IN

NE AGENT TYPE _____ GAL _____ IN

FLUID LOSS ADD. TYPE _____ GAL-LB _____ IN

GELLING AGENT TYPE _____ GAL-LB _____ IN

FRIC. RED. AGENT TYPE _____ GAL-LB _____ IN

BREAKER TYPE _____ GAL-LB _____ IN

BLOCKING AGENT TYPE _____ GAL-LB _____ IN

PERFPAC BALLS TYPE _____ QTY _____

OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>1. Hays</u>	<u>60888</u>	<u>5-777</u>
<u>2. Hays</u>	<u>49222</u>	<u>60-10</u>
<u>3. Hays</u>	<u>53777</u>	<u>5611</u>
<u>4. Hays</u>	<u>67109</u>	<u>6-116</u>

DEPARTMENT LINE WT

DESCRIPTION OF JOB 5" Long string

JOB DONE THRU TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X Milton H. Hays

HALLIBURTON OPERATOR John Bayard COPIES REQUESTED 11

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS./GAL.
	<u>250</u>	<u>H. W. G. 1.44</u>		<u>B</u>	<u>2" 1/2" blocks</u>	<u>1.84</u>	<u>12.74</u>
	<u>275</u>	<u>H. W. G. 1.44</u>		<u>B</u>	<u>2" 1/2" blocks 10" 1.44 1</u>	<u>1.99</u>	<u>12.34</u>
	<u>144</u>	<u>50/40</u>	<u>102</u>	<u>B</u>	<u>10% Salt</u>	<u>1.99</u>	<u>13.74</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRELUBR. BBL-GAL. 3-112 TYPE SALT

BREAKDOWN _____ MAXIMUM _____ LOAD & BRON. BBL-GAL. _____ PAD. BBL-GAL. _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT. BBL-GAL. _____ DISPL. 40.3

SHUT-IN INSTANT. _____ B-LIN. _____ CEMENT SLURRY. 205.9

ORIG. _____ AVAILABLE _____ TOTAL VOLUME. BBL-GAL. _____

TREAT. _____ OVERALL _____ REMARKS 3 bbl spaces Annular Wash

CEMENT LEFT IN PIPE 35 REASON Spur it